

ABSTRACT OF THE DISCLOSURE

A low-cost circulator used in fiber optic networks to accomplish bi-directional communication along a single fiber optic cable. The circulator has three ports, namely an input port, an output port and a bi-directional network port. The circulator core is constructed such that when light with a specific polarization is input into the input port, it is bent into the bi-directional network port where it can be propagated to the fiber optic network. Light input from the bi-directional network port can be any state of polarization, and it passes through the circulator core to the output port.

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